

## **Historic, archived document**

Do not assume content reflects current scientific knowledge, policies, or practices.



THE INSECT PEST SURVEY  
BULLETIN

---

Volume 15

Supplement

Number 2

---

BUREAU OF  
ENTOMOLOGY AND PLANT QUARANTINE  
UNITED STATES  
DEPARTMENT OF AGRICULTURE  
AND  
THE STATE ENTOMOLOGICAL  
AGENCIES COOPERATING



## THE TWO BROODS OF PERIODICAL CICADA SCHEDULED TO APPEAR IN 1935

Brood IX of the periodical Cicada will appear in 1935. This is a well defined brood in southern West Virginia, western Virginia, and extreme northwestern North Carolina, with scattered records throughout the remainder of West Virginia and eastward into northern Virginia and Maryland. Even less positive records of single year's appearances of this brood have been made for northern Ohio, southwestern Michigan, and northern Indiana, and Martha's Vineyard, Mass. The last was only recorded in 1833.

The unsubstantiated theory of acceleration or retardation of certain individuals of any given brood might account for some of these scattered records. This brood was first recorded in 1833 and has been recorded at every subsequent period of appearance. A. D. Hopkins, by a survey carried on in 1901, did most to delimit the range of this interesting brood which nearly exactly fills the gap between the three foci of brood X, the largest brood of the 17 year race due to appear in 1936.

Following is a list of all the records available to the Insect Pest Survey on the occurrence of this brood. Under each State the counties (underlined) are arranged alphabetically and under each county the towns are arranged alphabetically. The numerals following a town indicate the year or years the brood was recorded from that town; those after the county indicate that the record was for the county and gave no specific town or towns. Counties or towns without dates are from records of the brood without giving any particular year of appearance.

Brood IX. 1833, 1850, 1867, 1884, 1901, 1918.

## INDIANA.

Boone, Lebanon 1884; Blackford, Hartford City 1884; DeKalb, Stafford 1901; Lake, Cedar Lake 1884.

## MARYLAND.

Baltimore, Baltimore 1918; Garrett, Oakland 1901.

## MASSACHUSETTS.

Dukes 1833.

## MICHIGAN.

Cass, Edwardsburg 1901; Newaygo 1901.

NORTH CAROLINA.

Allegheny, Elk Creek 1884, Edwards Crossroads 1901, Roseland 1901, Vox 1901; Ashe 1901; Moore, Southern Pines 1918; Surry 1901, 1918; Wilkes, Wilkesboro 1850, 1867, 1901; Yadkin 1901.

OHIO.

Cuyahoga, Bedford 1901; Medina, Seville 1884, Medina Twp. 1884.

VIRGINIA.

Alexandria, Maywood 1915; Bland, 1850, 1867, 1884; Buchanan, Grundy 1901; Carroll, Wasp 1901, Woodlawn 1901, Waltz 1901; Craig, New-castle 1884; Fairfax, Great Falls 1918; Franklin 1884, Ferram 1901, Sydnersville 1901; Giles 1884; Grayson 1867, 1884; Henry 1850, 1867, 1884; Lee, Ewing 1901; Loudoun\*; Montgomery 1901; Patrick, Puckett 1901, Woolwine 1918; Pulaski 1850, 1867, 1884, New River Depot 1901, Newbern 1884; Roanoke 1884, Salem 1901; Smyth 1850, 1867, 1884, Holstein Mills 1901, Sugar Grove 1901; Tazewell 1850, 1867, 1884; Washington, Farris 1901; Wise, Pound 1867; Wythe 1884, Wytheville 1901, 1918.

WEST VIRGINIA.

Barbour 1901; Berkeley 1901; Boone 1901; Braxton 1901; Clay 1901; Fayette 1867, 1884, Deepwater 1901, Oak Hill 1884; Greenbrier 1867, 1884; Hamshire 1901; Hardy 1901; Harrison 1901; Jackson 1901; Jefferson 1901; Kanawha 1901; Logan 1901; Marshall 1901; Mason 1901; Mercer, Athens 1884, Elkins 1884, Oakvale 1884; Monongalia 1901; Monroe "and adjoining counties", 1833, 1850, Greenbrier 1884; Nickolas 1901; Pleasants 1901; Pocahontas 1901, Buckeye 1884; Preston 1884, 1901, Lewisbury 1884; Putnam 1901; Raleigh, Citie 1867, 1884, 1901, Prosperity 1884, Raleigh (C. H.) 1884, Roxie 1884, Sunflower 1884, Table Rock 1884; Randolph, Kingsville 1901; Roane 1901; Summers, Clayton 1884, Indian Mills 1884; Tucker 1901; Tyler 1901; Upshur 1901; Webster 1901; Wetzel 1901; Wood 1901; Wyoming 1901.

---

\* Recorded in U. S. D. A. Bur. Ent. B 71, 1923.

PERIODICAL CICADA  
KNOWN DISTRIBUTION OF BROOD IX

○ RECORDED ONE YEAR IN THE COUNTY

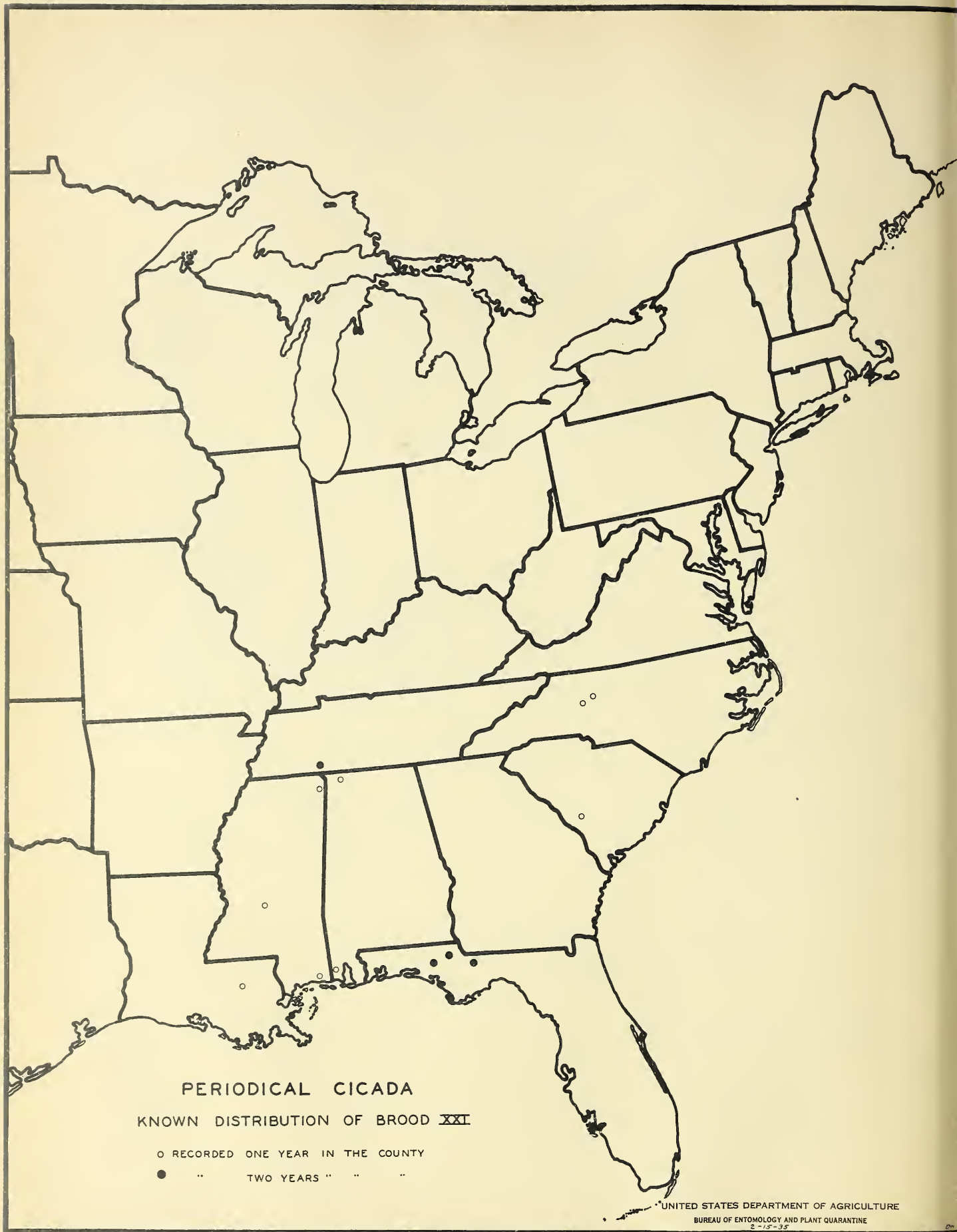
● " TWO YEARS " " "  
● " THREE " " " "  
● " FOUR " " " "

UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE  
2-75-35

274







Brood XXI of the tredecim race is very problematical. Three successive appearances were recorded in the extreme northwestern part of Florida, 1844, 1857, and 1870. There was a single record of the appearance of this brood in 1883 and 1896 in South Carolina and Louisiana, respectively. The brood was not recorded in 1909 and in 1922 only two specimens were seen, both at Pelahatchie, Miss. Following is a list of all the records available to the Insect Pest Survey on the occurrence of this brood:

Brood XXI. 1844, 1857, 1870, 1883 (1896), (1909), 1922.

ALABAMA.

Lauderdale\*; Mobile, Mobile 1870.

FLORIDA.

Northwestern part 1870; Gadsden 1844, 1857; Jackson 1844, 1857; Washington 1844, 1857.

LOUISIANA.

Livingston, Whitehall 1896.

MISSISSIPPI.

Eastern part 1870; Jackson\*; Tishomingo\*; Rankin, Pelahatchie 1922.

NORTH CAROLINA.

Davie 1870; Iredell 1870.

SOUTH CAROLINA.

Barnwell, Martin 1883.

TENNESSEE.

Hardin 1922, Savannah 1870.

---

\* Recorded in U. S. D. A. Bur. Ent. B. 71, 1923.



TABLE OF COINCIDENCE  
OF BROODS OF PERIODICAL CICADA

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII
XVIIII			1776														
XIX				1777													
XX	1791				1778												
XXI		1792				1779											
XXII			1793				1780										
XXIII				1794				1781									
XXIV	1808				1795				1782								
XXV		1809				1796				1783							
XXVI			1810				1797				1784						
XXVII				1811				1798				1785					
XXVIII	1825				1812				1799				1786				
XXIX		1826				1813				1800					1787		
XXX			1827				1814				1801					1788	
XVIIII				1828				1815				1802				1789	
XIX	1842				1829				1816				1803				1790
XX		1843				1830				1817				1804			
XXI			1844				1831				1818				1805		
XXII				1845				1832				1819				1806	
XXIII	1859				1846				1833				1820				1807
XXIV		1860				1847				1834				1821			
XXV			1861				1848				1835				1822		
XXVI				1862				1849				1836				1823	
XXVII	1876				1863				1850				1837				1824
XXVIII		1877				1864				1851				1838			
XXIX			1878				1865				1852				1839		
XXX				1879				1866				1853				1840	
XVIIII	1893				1880				1867				1854				1841
XIX		1894				1881				1868				1855			
XX			1895				1882				1869				1856		
XXI				1896				1883				1870				1857	
XXII	1910				1897				1884				1871				1858
XXIII		1911				1898				1885				1872			
XXIV			1912				1899				1886				1873		
XXV				1913				1900				1887				1874	
XXVI	1927				1914				1901				1888				1875
XXVII		1928				1915				1902				1889			
XXVIII			1929				1916				1903				1890		
XXIX				1930				1917				1904				1891	
XXX	1944				1931				1918				1905				1892
XVIIII		1945				1932				1919				1906			
XIX			1946				1933				1920				1907		
XX				1947				1934				1921				1908	
XXI	1961				1948				1935				1922				1909
XXII		1962				1949				1936				1923			
XXIII			1963				1950				1937				1924		
XXIV				1964				1951				1938				1925	
XXV					1965				1952				1939				1926
XXVI						1966				1953				1940			
XXVII							1967				1954				1941		
XXVIII								1968				1955				1942	
XXIX									1969				1956				1943
XXX										1970					1957		
XVIIII											1971					1958	
XIX												1972					1959
XX													1973				1960

